

2

O.I.P.E

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/816,660

DATE: 06/26/2001

TIME: 09:27:33

Input Set : D:\PA_00309G.TXT

Output Set: N:\CRF3\06262001\I816660.raw

P-5

ENTERED

1 <110> APPLICANT: Dotson, Stanton B.
 2 Kovalic, David K.
 3 Liu, Jingdong
 4 Lutfiyya, Linda L.
 5 McIninch, James
 6 Wu, Wei
 8 <120> TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
 9 Transcription In Plants
 11 <130> FILE REFERENCE: 38-21(15300)D
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/816,660
 C--> 13 <141> CURRENT FILING DATE: 2001-03-26
 13 <150> PRIOR APPLICATION NUMBER: US 09/474,435
 14 <151> PRIOR FILING DATE: 1999-12-28
 16 <150> PRIOR APPLICATION NUMBER: US 09/654,617
 17 <151> PRIOR FILING DATE: 2000-09-05
 19 <150> PRIOR APPLICATION NUMBER: US 09/733,089
 20 <151> PRIOR FILING DATE: 2000-12-11
 22 <150> PRIOR APPLICATION NO: <150> US 09/684,016
 23 <151> PRIOR FILING DATE: 2000-10-10
 25 <150> PRIOR APPLICATION NUMBER: US 09/620,392
 26 <151> PRIOR FILING DATE: 2000-07-19
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 31 <211> LENGTH: 115
 32 <212> TYPE: PRT
 33 <213> ORGANISM: Arabidopsis thaliana
 35 <400> SEQUENCE: 1
 37 Ala Arg Asp Phe Phe Phe Ser Ser Arg Asn Phe Leu Arg Phe Gln Asn
 38 1 5 10 15
 40 Phe Pro Val Lys Ser Lys Lys Lys Ala Arg Ser Ser Ser Leu Met Ala
 41 20 25 30
 43 Thr Thr Leu Ser Arg Asp Gln Tyr Val Tyr Met Ala Lys Leu Ala Glu
 44 35 40 45
 46 Gln Ala Glu Arg Tyr Glu Glu Met Val Gln Phe Met Glu Gln Leu Val
 47 50 55 60
 49 Ser Gly Ala Thr Pro Ala Gly Glu Leu Thr Val Glu Glu Arg Asn Leu
 50 65 70 75 80
 52 Leu Ser Val Ala Tyr Lys Asn Val Ile Gly Ser Leu Arg Ala Ala Trp
 53 85 90 95
 55 Arg Ile Val Ser Ser Ile Glu Gln Lys Glu Glu Ser Arg Lys Asn Glu
 56 100 105 110
 58 Glu His Val
 59 115
 62 <210> SEQ ID NO: 2
 63 <211> LENGTH: 139
 64 <212> TYPE: PRT
 65 <213> ORGANISM: Arabidopsis thaliana

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67 <220> FEATURE:

68 <221> NAME/KEY: unsure

69 <222> LOCATION: (1)..(139)

70 <223> OTHER INFORMATION: unsure at all Xaa locations

72 <400> SEQUENCE: 2

W--> 74 Lys Lys Lys Ser Xaa Ser Ile Ser Leu Arg Ser Glu Ser Ile His His
 75 1 5 10 15
 77 Arg Ser Leu Met Ala Ala Pro Pro Ala Ser Ser Ser Ala Arg Glu Glu
 78 20 25 30
 W--> 80 Phe Val Tyr Leu Ala Lys Leu Ala Glu Xaa Ala Glu Arg Tyr Glu Glu
 81 35 40 45
 83 Met Val Glu Phe Met Glu Lys Val Ala Glu Ala Val Asp Lys Asp Glu
 84 50 55 60
 86 Leu Thr Val Glu Glu Arg Asn Leu Leu Ser Val Ala Tyr Lys Asn Val
 87 65 70 75 80
 W--> 89 Ile Gly Ala Arg Xaa Ala Ser Trp Arg Ile Ile Ser Phe His Xaa Thr
 90 85 90 95
 W--> 92 Lys Arg Lys Gly Val Val Gly Xaa Xaa Xaa Pro Phe Xaa Pro Gly Ser
 93 100 105 110
 W--> 95 Val Asp Phe Gln Glu Ala Xaa Phe Asp Xaa Xaa Val Xaa Arg Xaa Ile
 96 115 120 125
 W--> 98 Phe Xaa Xaa Phe Phe Xaa Arg Phe Xaa Xaa Thr
 99 130 135

102 <210> SEQ ID NO: 3

103 <211> LENGTH: 144

104 <212> TYPE: PRT

105 <213> ORGANISM: Arabidopsis thaliana

107 <220> FEATURE:

108 <221> NAME/KEY: unsure

109 <222> LOCATION: (1)..(144)

110 <223> OTHER INFORMATION: unsure at all Xaa locations

112 <400> SEQUENCE: 3

W--> 114 Lys Ala Cys Asn Met Ala Lys Gln Ala Phe Xaa Glu Ala Ile Ala Glu
 115 1 5 10 15
 117 Leu Asp Thr Leu Gly Glu Glu Ser Tyr Lys Asp Ser Thr Leu Ile Met
 118 20 25 30
 120 Gln Leu Leu Arg Asp Asn Leu Thr Leu Trp Thr Ser Asp Met Gln Glu
 121 35 40 45
 W--> 123 Gln Met Asp Glu Ala Xaa Gly Ser Arg Xaa Arg Gly Gly Gly Leu Leu
 124 50 55 60
 W--> 126 Arg Asp Val Ser Ala Thr Lys Ser Ile Ser Lys Ser Pro Xaa Pro Leu
 127 65 70 75 80
 W--> 129 Leu Lys Asn Cys Glu Lys Arg Leu Xaa Cys Leu Xaa Xaa Leu Xaa Leu
 130 85 90 95
 W--> 132 Xaa Thr Ala Xaa Xaa Phe Ile Tyr Ser Thr Lys Pro Leu Cys Ser Xaa
 133 100 105 110
 135 Tyr Leu Leu Ser Arg Leu Cys Ser Leu Lys Asn Ile Phe Leu Leu
 136 115 120 125
 W--> 138 Lys Ala Pro Leu Val Lys Tyr Gly Pro Xaa Thr Xaa Ser Ala Asn Gln

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142 <210> SEQ ID NO: 4
143 <211> LENGTH: 132
144 <212> TYPE: PRT
145 <213> ORGANISM: Arabidopsis thaliana
147 <400> SEQUENCE: 4
149 Ser Ile His His Arg Ser Leu Met Ala Ala Pro Pro Ala Ser Ser Ser
150 1      5      10      15
152 Ala Arg Glu Glu Phe Val Tyr Leu Ala Lys Leu Ala Glu Gln Ala Glu
153      20      25      30
155 Arg Tyr Glu Glu Met Val Glu Phe Met Glu Lys Val Ala Glu Ala Val
156      35      40      45
158 Asp Lys Asp Glu Leu Thr Val Glu Glu Arg Asn Leu Leu Ser Val Ala
159      50      55      60
161 Tyr Lys Asn Val Ile Gly Ala Arg Arg Ala Ser Trp Arg Ile Ile Phe
162 65      70      75      80
164 Phe Ile Glu Gln Lys Glu Glu Ser Phe Gly Ile Tyr Leu His Val Thr
165      85      90      95
167 Ser Tyr Ser Ile Leu Gln Lys Ala Cys Phe Val Phe Leu Phe Phe Phe
168      100      105      110
170 Phe Ser Tyr Ser Ile Phe Phe Leu Ile Phe Phe Phe Tyr Tyr Tyr Tyr
171      115      120      125
173 Leu Leu Ile Ile
174      130
177 <210> SEQ ID NO: 5
178 <211> LENGTH: 296
179 <212> TYPE: PRT
180 <213> ORGANISM: Arabidopsis thaliana
182 <220> FEATURE:
183 <221> NAME/KEY: unsure
184 <222> LOCATION: (1)..(296)
185 <223> OTHER INFORMATION: unsure at all Xaa locations
187 <400> SEQUENCE: 5
189 Arg Met Pro Pro Phe Leu Ser Ser Glu Phe Gly Leu Arg Lys Lys Ile
190 1      5      10      15
192 Lys Ser Phe Phe Phe Phe Phe Leu Trp Gly Gly Pro Leu Ala Glu Thr
193      20      25      30
195 Gln Leu Gly Ser Trp Ala Asn Leu Ala Ser Gln Pro Asp Arg Thr Lys
196      35      40      45
198 Lys Met Val Asn Leu Leu Asp Gln Leu Val Pro Gly Pro Leu Gln Pro
199      50      55      60
201 Lys Asn Leu Thr Val Glu Lys Arg Ile Leu Leu Phe Val Ala Asn Lys
202 65      70      75      80
204 Thr Val Thr Gly Ser Leu Pro Ala Ala Trp Arg Ile Val Ser Ser Met
205      85      90      95
207 Asp Gln Lys Glu Glu Ser Arg Lys Thr Asp Glu His Val Ser Leu Gly
208      100      105      110
W--> 210 Gln Gly Phe Gln Ile Xaa Ser Xaa Val Xaa Ala Phe Phe Cys Trp Leu
211      115      120      125

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W--> 213 Trp Ile Pro Xaa Ala Pro Xaa Leu Ala Ile Xaa Ser His Leu Leu Glu
      214      130      135      140
      216 Arg Val Glu Ser Lys Val Phe Tyr Leu Lys Met Lys Gly Asp Tyr His
      217 145      150      155      160
      219 Arg Tyr Met Ala Glu Phe Lys Ser Gly Asp Glu Arg Lys Thr Ala Ala
      220      165      170      175
      222 Glu Asp Thr Met Leu Ala Tyr Lys Ala Ala Gln Asp Ile Ala Ala Ala
      223      180      185      190
      225 Asp Met Ala Pro Thr His Pro Ile Arg Leu Gly Leu Ala Leu Asn Phe
      226      195      200      205
W--> 228 Ser Val Phe Tyr Tyr Glu Ile Leu Asn Ser Ser Xaa Lys Ala Cys Asn
      229      210      215      220
W--> 231 Met Xaa Lys Gln Ala Phe Lys Glu Xaa Xaa Leu Ser Leu His Ser Gly
      232 225      230      235      240
W--> 234 Arg Gly Ser Phe Lys Gly Arg Leu Ser Xaa Ser Val Ser Xaa Gly Gln
      235      245      250      255
W--> 237 Leu Xaa Phe Xaa Pro Arg Phe Gln Xaa Xaa Cys Arg Ala Leu Gly Leu
      238      260      265      270
W--> 240 Val Arg Gly Arg Val Ser Gly Xaa Ser Pro Thr Ala Xaa Thr Xaa Thr
      241      275      280      285
W--> 243 Phe Xaa Asn Cys Glu Lys Leu Val
      244      290      295
      247 <210> SEQ ID NO: 6
      248 <211> LENGTH: 99
      249 <212> TYPE: PRT
      250 <213> ORGANISM: Arabidopsis thaliana
      252 <400> SEQUENCE: 6
      254 Phe Gln Ile Ser Leu Phe Ser Ser Lys Thr His Leu Ser Leu Ser Leu
      255 1      5      10      15
      257 Ile Lys His Lys Asn Ser Phe Ile Val Leu Ser Arg Leu Thr Tyr Asn
      258      20      25      30
      260 Thr Arg Phe Ser Asn Arg Asn Arg Phe Ser Leu Phe Asp Gln Ile Ser
      261      35      40      45
      263 Asp Leu Ser Leu Phe Asp Ser Ser Ser Leu Asp Arg Phe Ser Leu Glu
      264      50      55      60
      266 Thr Thr Met Ala Ser Gly Arg Glu Glu Phe Val Tyr Met Ala Lys Leu
      267 65      70      75      80
      269 Ala Glu Gln Ala Glu Arg Tyr Glu Glu Met Val Glu Phe Met Glu Lys
      270      85      90      95
      272 Val Ser Ala
      276 <210> SEQ ID NO: 7
      277 <211> LENGTH: 428
      278 <212> TYPE: PRT
      279 <213> ORGANISM: Arabidopsis thaliana
      281 <220> FEATURE:
      282 <221> NAME/KEY: unsure
      283 <222> LOCATION: (1)..(428)
      284 <223> OTHER INFORMATION: unsure at all Xaa locations
      286 <400> SEQUENCE: 7

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W--> 288 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro
      289   1           5           10           15
      291 Val Arg Asn Ser Arg Val Asp Pro Arg Val Arg Lys Lys Lys Ser Leu
      292           20           25           30
      294 Ser Ile Ser Leu Arg Ser Glu Ser Ile His His Arg Ser Leu Met Ala
      295           35           40           45
      297 Ala Pro Pro Ala Ser Ser Ser Ala Arg Glu Glu Phe Val Tyr Leu Ala
      298           50           55           60
      300 Lys Leu Ala Glu Gln Ala Glu Arg Tyr Glu Glu Met Val Glu Phe Met
      301   65           70           75           80
      303 Glu Lys Val Ala Glu Ala Val Asp Lys Asp Glu Leu Thr Val Glu Glu
      304           85           90           95
      306 Arg Asn Leu Leu Ser Val Ala Tyr Lys Asn Val Ile Gly Ala Arg Arg
      307           100          105          110
      309 Ala Ser Trp Arg Ile Ile Ser Ser Ile Glu Gln Lys Glu Glu Ser Arg
      310           115          120          125
      312 Gly Asn Asp Asp His Val Thr Thr Ile Arg Asp Tyr Arg Ser Lys Ile
      313           130          135          140
      315 Glu Ser Glu Leu Ser Lys Ile Cys Asp Gly Ile Leu Lys Leu Leu Asp
      316 145           150          155          160
      318 Thr Arg Leu Val Pro Ala Ser Ala Asn Gly Asp Ser Lys Val Phe Tyr
      319           165          170          175
      321 Leu Lys Met Lys Gly Asp Tyr His Arg Tyr Leu Ala Glu Phe Lys Thr
      322           180          185          190
      324 Gly Gln Glu Arg Lys Asp Ala Ala Glu His Thr Leu Thr Ala Tyr Lys
      325           195          200          205
      327 Ala Ala Gln Asp Ile Ala Asn Ala Glu Leu Ala Pro Thr His Pro Ile
      328           210          215          220
      330 Arg Leu Gly Leu Ala Leu Asn Phe Ser Val Phe Tyr Tyr Glu Ile Leu
      331 225           230          235          240
      333 Asn Ser Pro Asp Arg Ala Cys Asn Leu Ala Lys Gln Ala Phe Asp Glu
      334           245          250          255
      336 Ala Ile Ala Glu Leu Asp Thr Leu Gly Glu Glu Ser Tyr Lys Asp Ser
      337           260          265          270
      339 Thr Leu Ile Met Gln Leu Leu Arg Asp Asn Leu Thr Leu Trp Thr Ser
      340           275          280          285
      342 Asp Met Gln Asp Glu Ser Pro Glu Glu Ile Lys Glu Ala Ala Ala Pro
      343           290          295          300
W--> 345 Lys Pro Ala Glu Glu Gln Lys Glu Ile Xaa Val Cys Gly Phe Phe Phe
      346 305           310          315          320
W--> 348 Gln Tyr Ser Xaa Val Met Gln Leu Xaa Leu Cys Phe Cys Leu Val Phe
      349           325          330          335
W--> 351 Ile Phe Xaa Ser Phe Leu Cys Tyr Pro Arg Ser Phe Xaa Gly Arg Leu
      352           340          345          350
      354 Ile Leu Val Leu Cys Leu Leu Phe Ser Ile Val Asp Ala Thr Gly Phe
      355           355          360          365
W--> 357 Leu Phe Cys Phe Thr Ser Ser Leu Asp Xaa Leu His Phe Pro Ala Tyr
      358           370          375          380
W--> 360 Ala Leu Tyr Leu Lys Leu Ser Phe Leu Ser Tyr Xaa Xaa Phe Ala Ile

```

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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Input Set : D:\PA_00309G.TXT

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L:13 M:270 C: Current Application Number differs, Replaced Current Application No
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:74 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:80 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:92 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:95 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:98 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:138 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:231 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:237 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:345 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:360 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:397 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:403 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:431 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:482 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:485 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:488 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:497 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:516 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:519 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:522 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:544 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:574 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:577 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:605 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:653 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:656 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:662 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:668 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12

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L:671 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:674 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:693 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:736 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14

<110> Dotson, Stanton B.
 Kovalic, David K.
 Liu, Jingdong
 Lutfiyya, Linda L.
 McIninch, James
 Wu, Wei

<120> Nucleic Acid Molecules And Other Molecules Associated With
 Transcription In Plants

<130> 38-21(15300)D

<150> US 09/474,435
 <151> 1999-12-28

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 <151> 2000-09-05

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 <151> 2000-07-19

<160> 24143

<210> 1
 <211> 115
 <212> PRT
 <213> Arabidopsis thaliana

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Phe Pro Val Lys Ser Lys Lys Lys Ala Arg Ser Ser Ser Leu Met Ala
 20 25 30

Thr Thr Leu Ser Arg Asp Gln Tyr Val Tyr Met Ala Lys Leu Ala Glu
 35 40 45

Gln Ala Glu Arg Tyr Glu Glu Met Val Gln Phe Met Glu Gln Leu Val
 50 55 60

Ser Gly Ala Thr Pro Ala Gly Glu Leu Thr Val Glu Glu Arg Asn Leu
 65 70 75 80

Leu Ser Val Ala Tyr Lys Asn Val Ile Gly Ser Leu Arg Ala Ala Trp
 85 90 95

Arg Ile Val Ser Ser Ile Glu Gln Lys Glu Glu Ser Arg Lys Asn Glu
 100 105 110

Glu His Val
 115

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Directory of D:\

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| .. | <DIR> | |
| PA_00309G.TXT | 44415 KB | 3/22/01 |

1 file(s)
Total filesize 44415 KB
2 folder(s)
0 kilobytes free